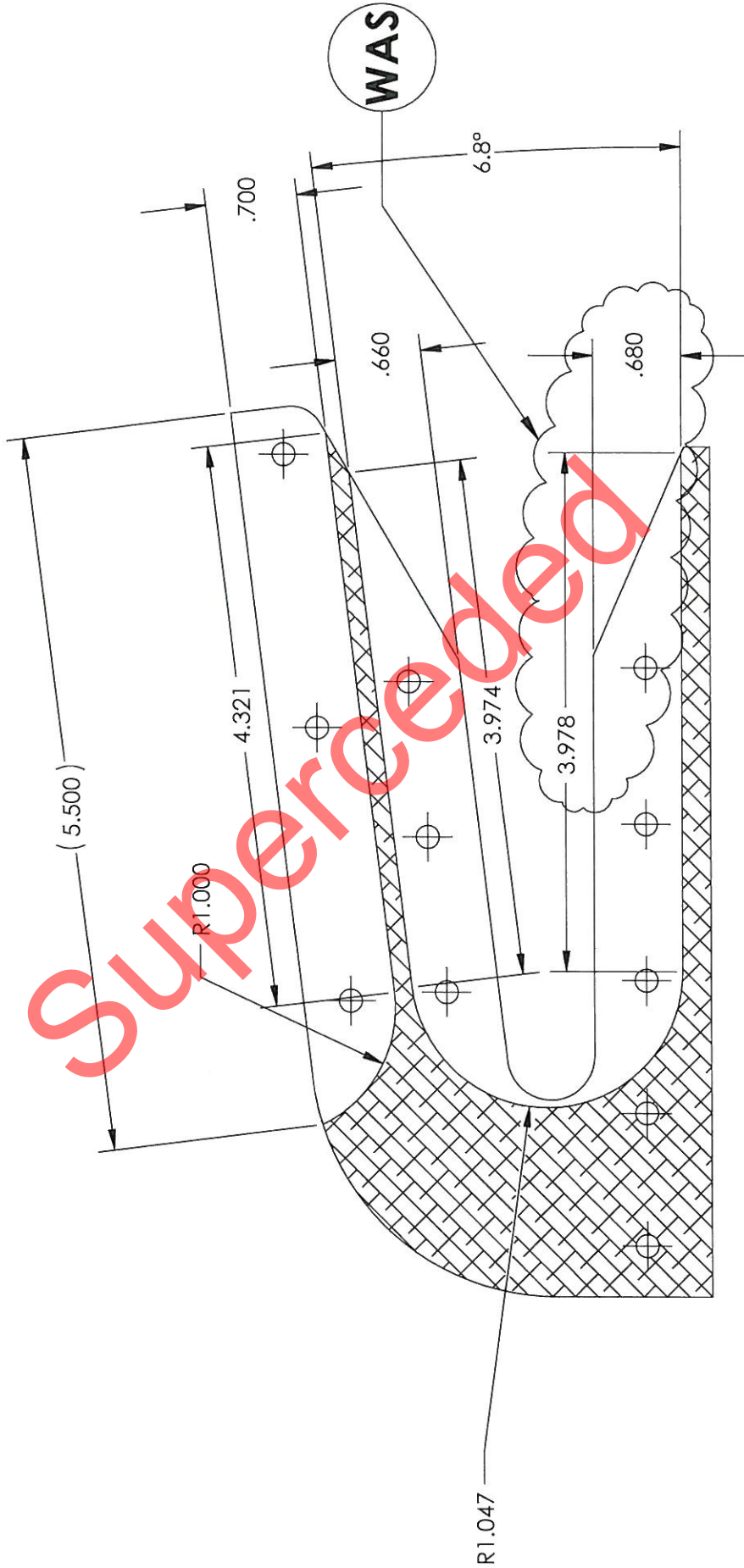


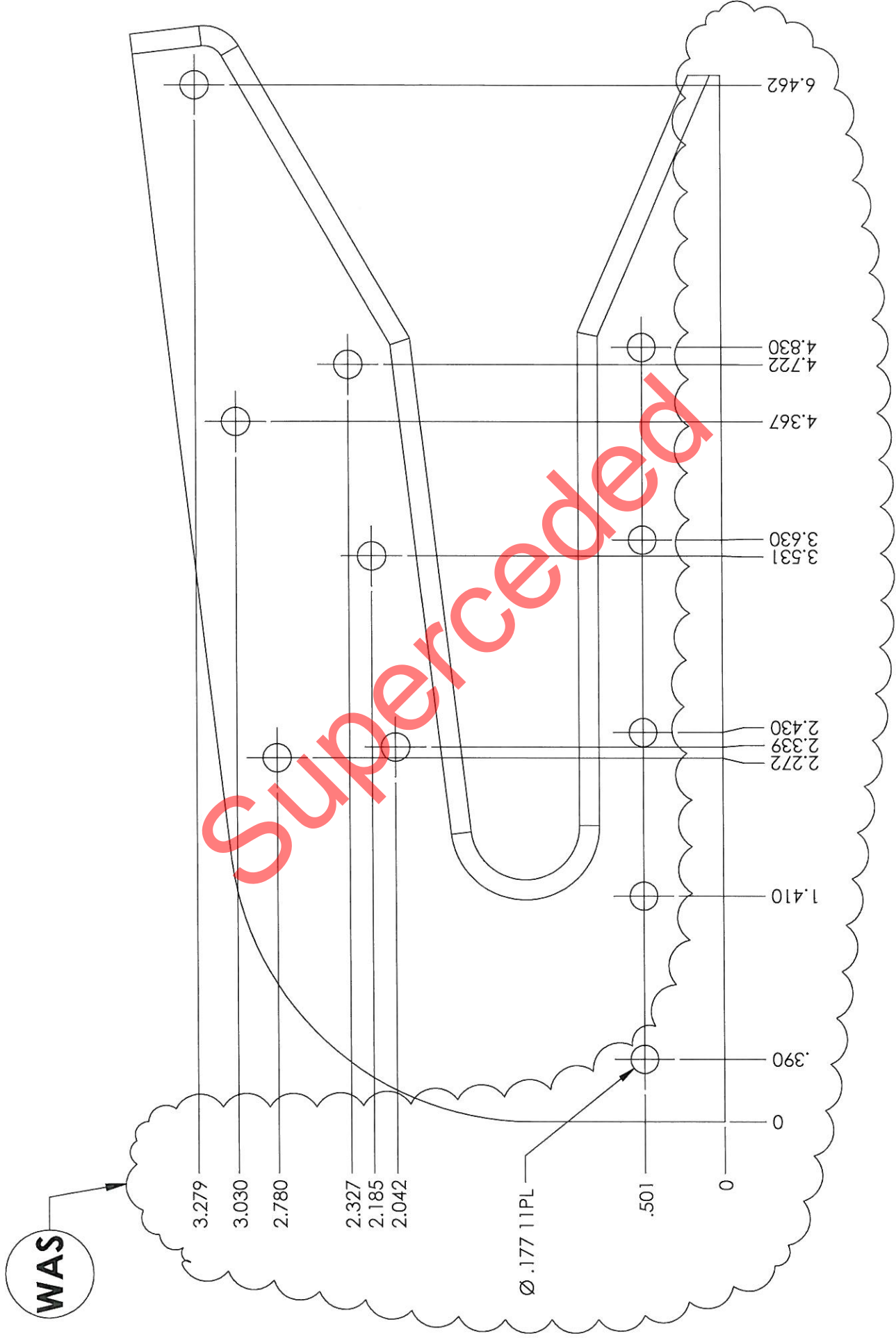
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|--|-------------------------|-------------------------------------|-----------------------|-----------------|---|
| APICAL INDUSTRIES, INC.  |                         | ENGINEERING CHANGE NOTICE NO. 03859 |                       | SHEET 1 OF 4    |   |
| DWG NO. 647.9700   |                         | REV: N/C                            | PREPARED BY B. PETERS | DATE: 04/11/13  | EFFECT ON DWG<br><input checked="" type="checkbox"/> INC. <input type="checkbox"/> UNINC. |
| DWG TITLE: CUTTER SUB ASSYS  |                         |                                     |                       |                 |   |
| APPROVED BY:   | ENGR <i>[Signature]</i> | MFG <i>[Signature]</i>              | QC <i>[Signature]</i> | EFF. NEXT ORDER |   |
| REASON: REVISED CUTTER BODY DIMENSIONS, ADDED INSPECTION DIMENSIONS, AND INCORPORATED ECN 03029. |                         |                                     |                       |                 |   |
| TRANSACTION CODES (TC):<br>A-ADD<br>R-REVISE<br>C-CREATE<br>D-DELETE                             |                         |                                     |                       |                 |   |

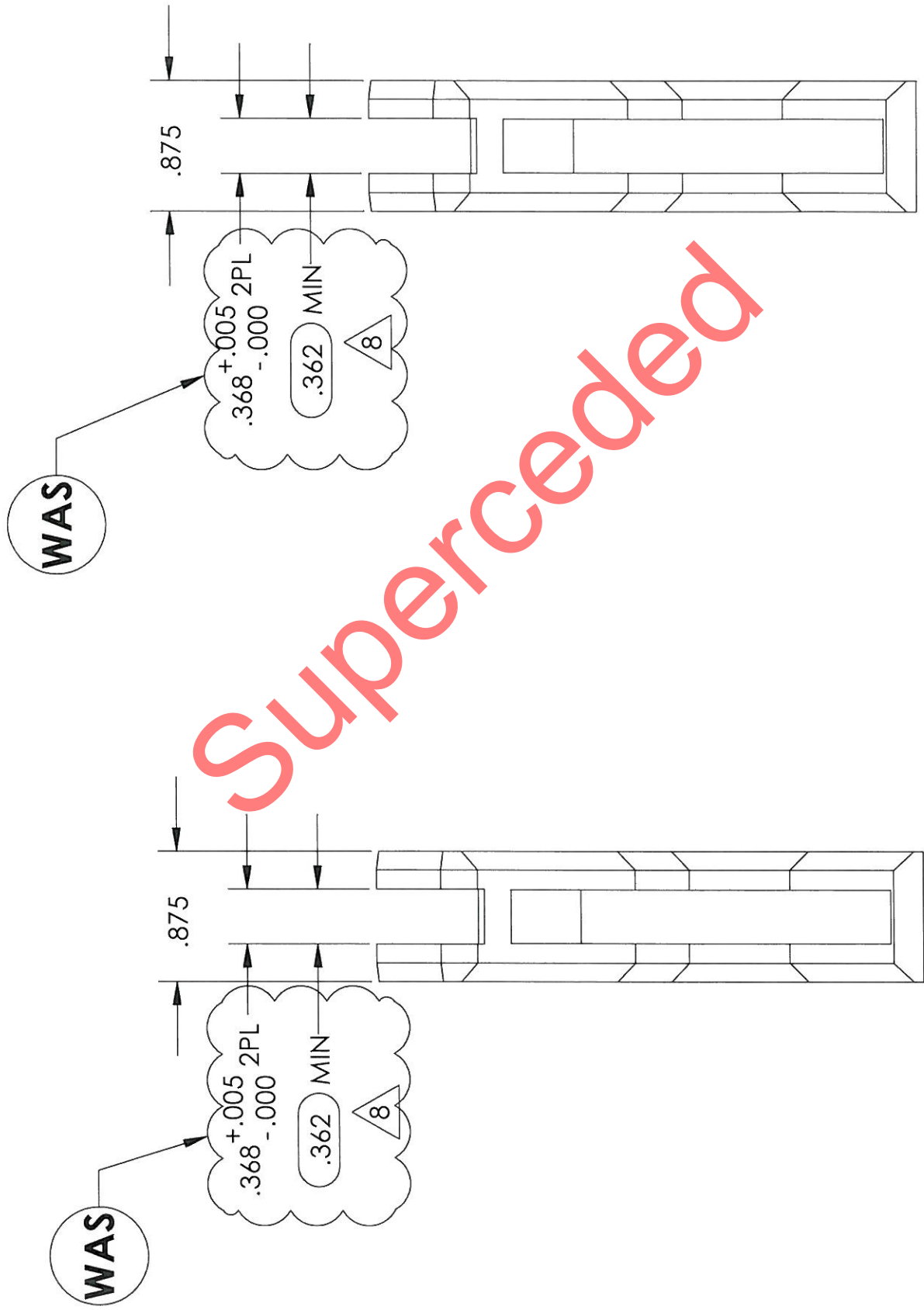


SECTION A-A  
SCALE 1 : 1

**SHEET 3, ZONE C5 WAS:**

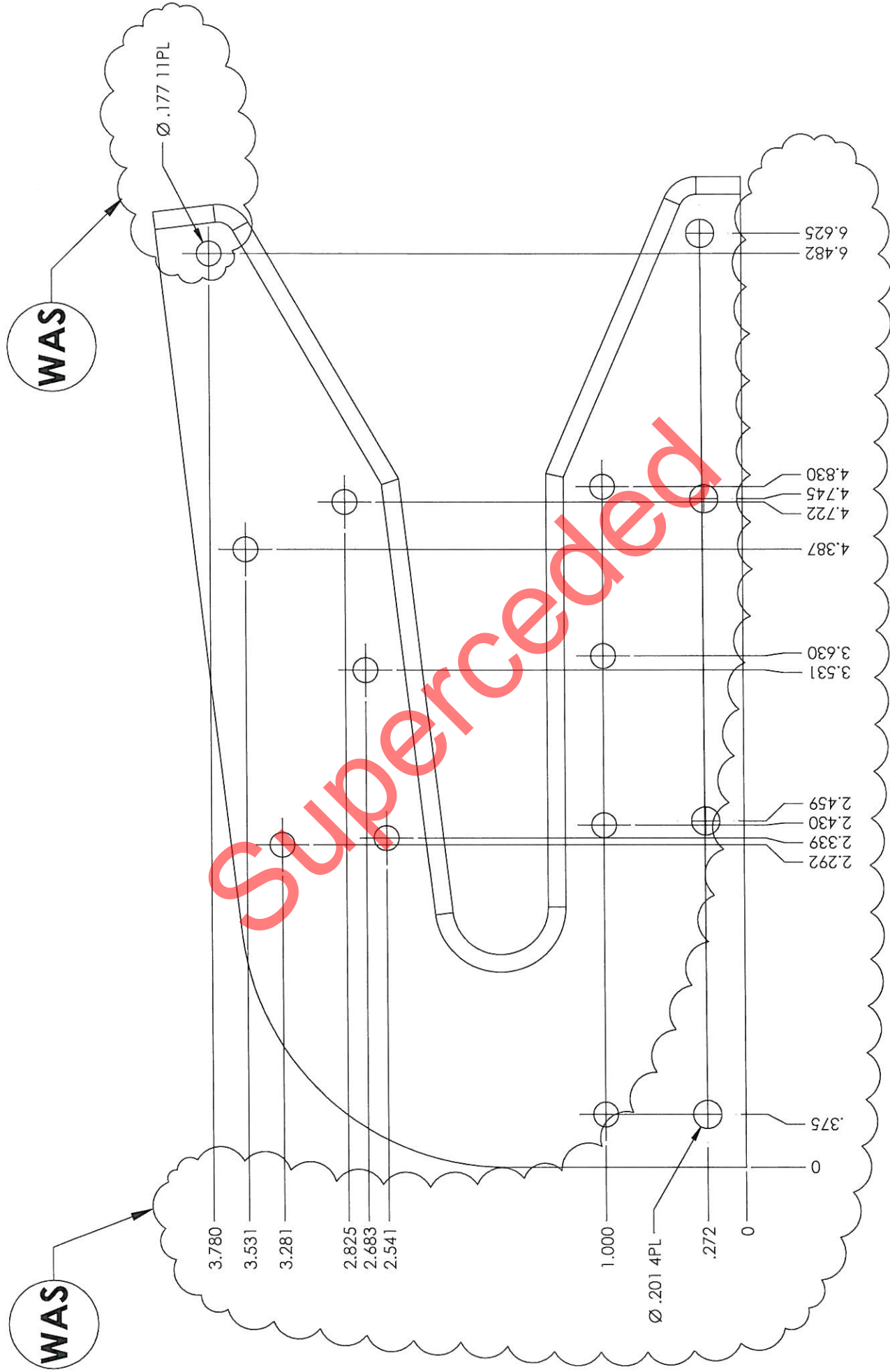
|                     |                              |   |                              |                              |                              |                 |                                |   |                     |                              |  |
|---------------------|------------------------------|---|------------------------------|------------------------------|------------------------------|-----------------|--------------------------------|---|---------------------|------------------------------|--|
| DOCUMENTS EFFECTED: | <input type="checkbox"/> MDL | <input type="checkbox"/> INSTALL INSTRUCTIONS | <input type="checkbox"/> ICA | <input type="checkbox"/> FMS | <input type="checkbox"/> BOM | CHANGE CATEGORY | <input type="checkbox"/> MAJOR | <input checked="" type="checkbox"/> MINOR | DER REVIEW REQUIRED | <input type="checkbox"/> YES | <input checked="" type="checkbox"/> NO |
|---------------------|------------------------------|---|------------------------------|------------------------------|------------------------------|-----------------|--------------------------------|---|---------------------|------------------------------|--|





SHEET 2, ZONE B6 WAS:

SHEET 5, ZONE B6 WAS:

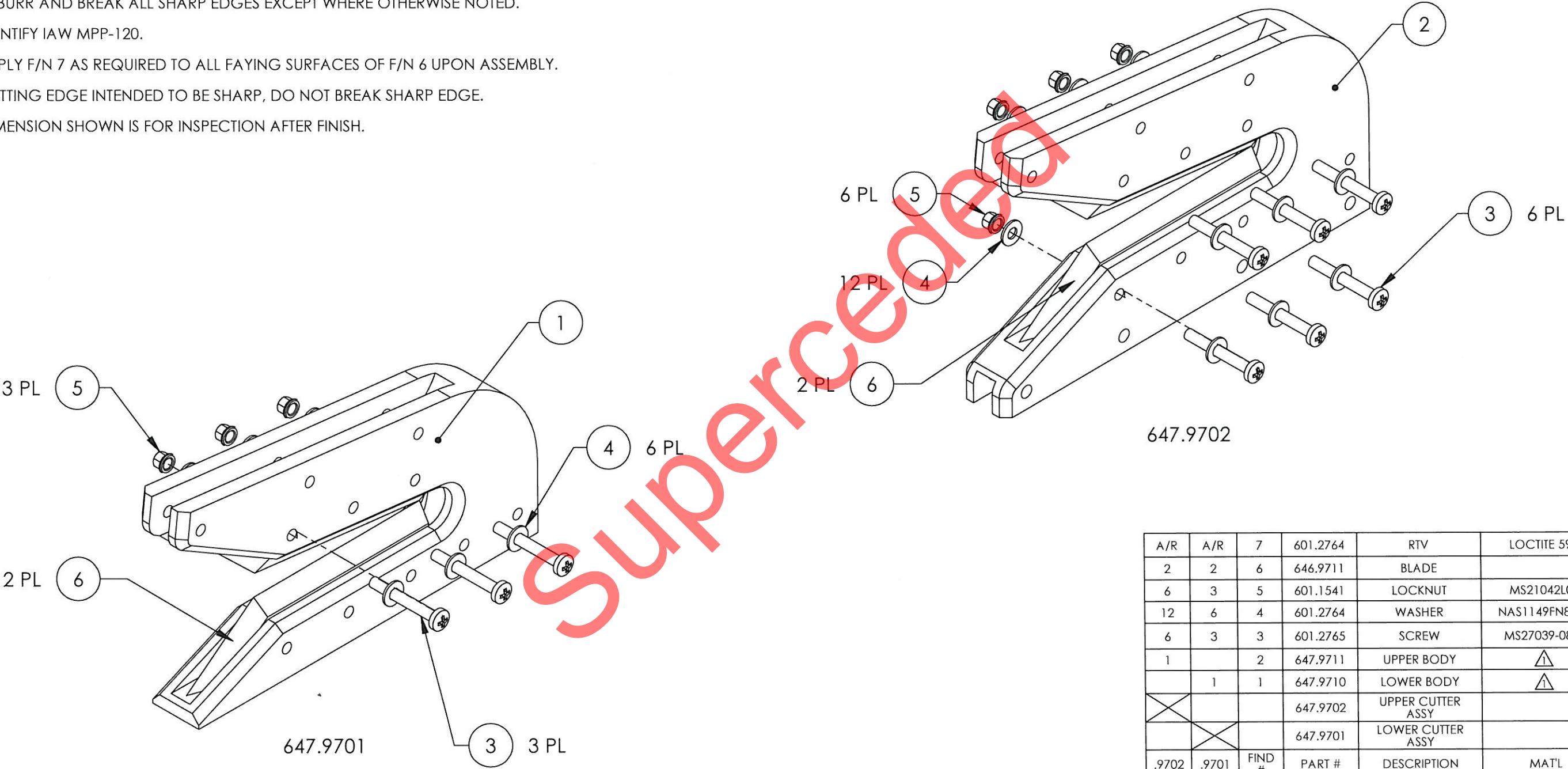




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| REVISIONS |                                |          |          |
|-----------|--------------------------------|----------|----------|
| REV.      | DESCRIPTION                    | DATE     | APPROVED |
|           | LAST PROTOTYPE RELEASE: PR1    |          |          |
| N/C       | INITIAL RELEASE                | 04-26-10 | P. BRAVO |
| A         | INCORPORATED ECH 03029 & 03859 | 04-11-13 | P. BRAVO |

- NOTES:
- 1 MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12.
  - 2 FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III, CLASS 2, COLOR BLACK; PRETREAT PRC-DESOTO PR-148 ADHESION PROMOTER; PRIME IAW MIL-P-23377J TYPE I CLASS N; 1-2 MIL MAX.
  - 4. DEBURR AND BREAK ALL SHARP EDGES EXCEPT WHERE OTHERWISE NOTED.
  - 5. IDENTIFY IAW MPP-120.
  - 6 APPLY F/N 7 AS REQUIRED TO ALL FAYING SURFACES OF F/N 6 UPON ASSEMBLY.
  - 7 CUTTING EDGE INTENDED TO BE SHARP, DO NOT BREAK SHARP EDGE.
  - 8 DIMENSION SHOWN IS FOR INSPECTION AFTER FINISH.



|               |       |        |   |                   |               |       |
|---------------|-------|--------|---|-------------------|---------------|-------|
| A/R           | A/R   | 7      | 601.2764  | RTV               | LOCTITE 598   |       |
| 2             | 2     | 6      | 646.9711  | BLADE             |               |       |
| 6             | 3     | 5      | 601.1541  | LOCKNUT           | MS21042L08    |       |
| 12            | 6     | 4      | 601.2764  | WASHER            | NAS1149FN832P |       |
| 6             | 3     | 3      | 601.2765  | SCREW             | MS27039-0819  |       |
| 1             |       | 2      | 647.9711  | UPPER BODY        | 1             | 2     |
|               | 1     | 1      | 647.9710  | LOWER BODY        | 1             | 2     |
|               |       |        | 647.9702  | UPPER CUTTER ASSY |               |       |
|               |       |        | 647.9701  | LOWER CUTTER ASSY |               |       |
| .9702         | .9701 | FIND # | PART #  | DESCRIPTION       | MAT'L         | SPEC. |
| QTY           |       |        | PARTS LIST  |                   |               |       |
| NEXT ASSY (S) |       |        | ORIGINAL DATE (MO-DA-YR) 04-26-10   |                   |               |       |
| 647.9200      |       |        | DRAWN BY A. QUAN CHECKER P. BRAVO   |                   |               |       |
|               |       |        | DRAWING APPROVAL P. BRAVO 04-26-10  |                   |               |       |
|               |       |        | CONTRACT No.  |                   |               |       |
|               |       |        | UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .03 3 PLACE DECIMALS ± .010 ANGLES ± .5° |                   |               |       |
|               |       |        | APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300   |                   |               |       |
|               |       |        | CUTTER SUB ASSYS  |                   |               |       |
|               |       |        | SIZE B CAGE CODE 07MZ6 DWG. NO. 647.9700 REV. A   |                   |               |       |
|               |       |        | SCALE NONE SHEET 1 OF 7   |                   |               |       |

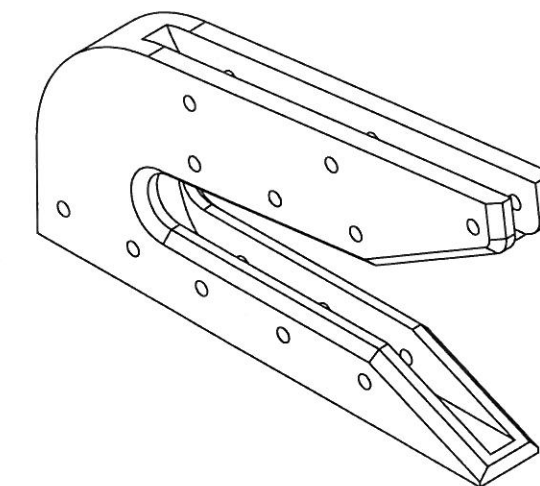
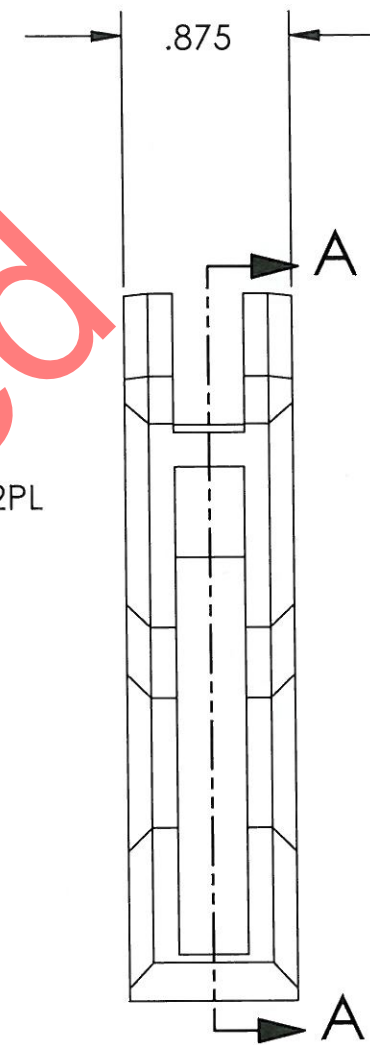
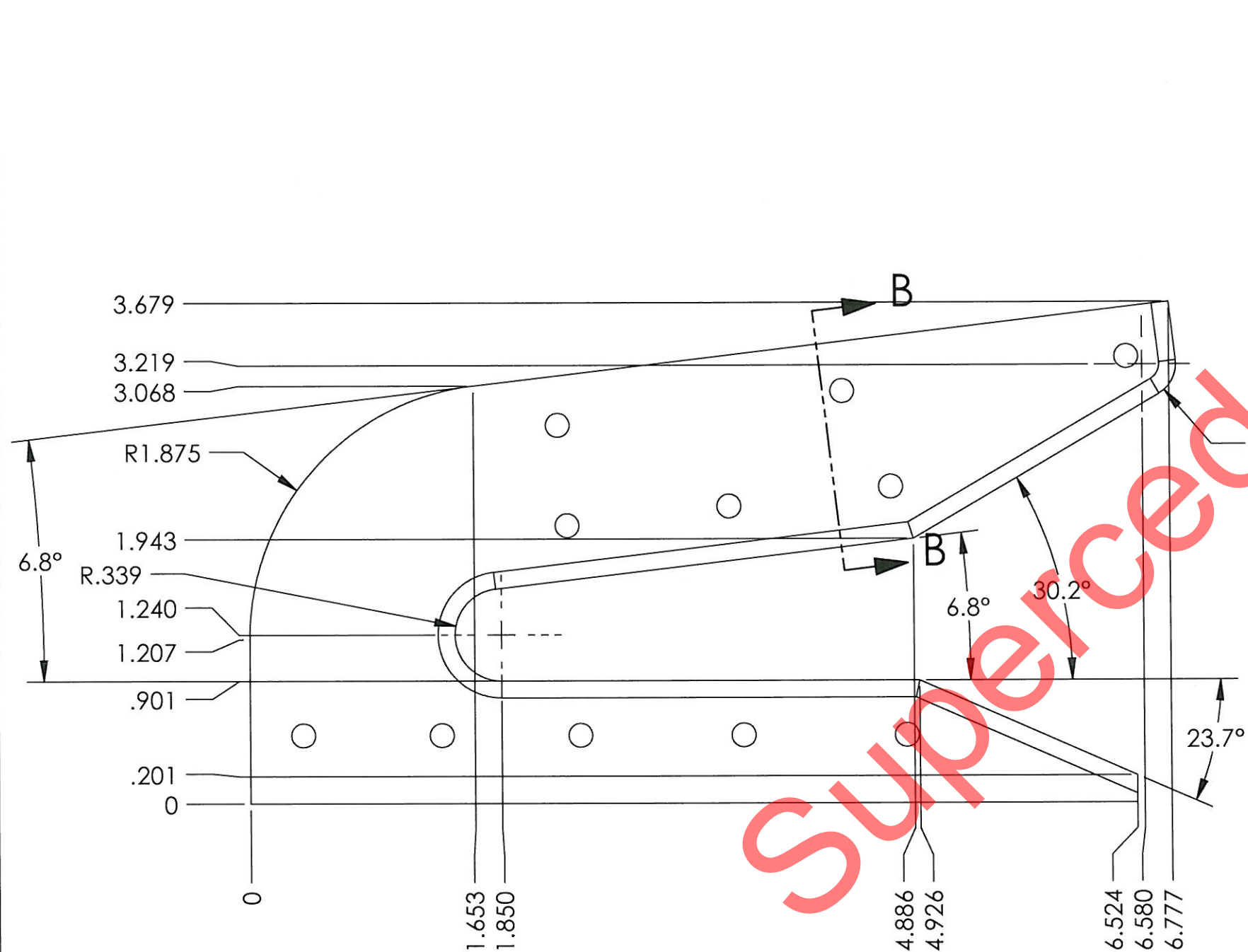
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A

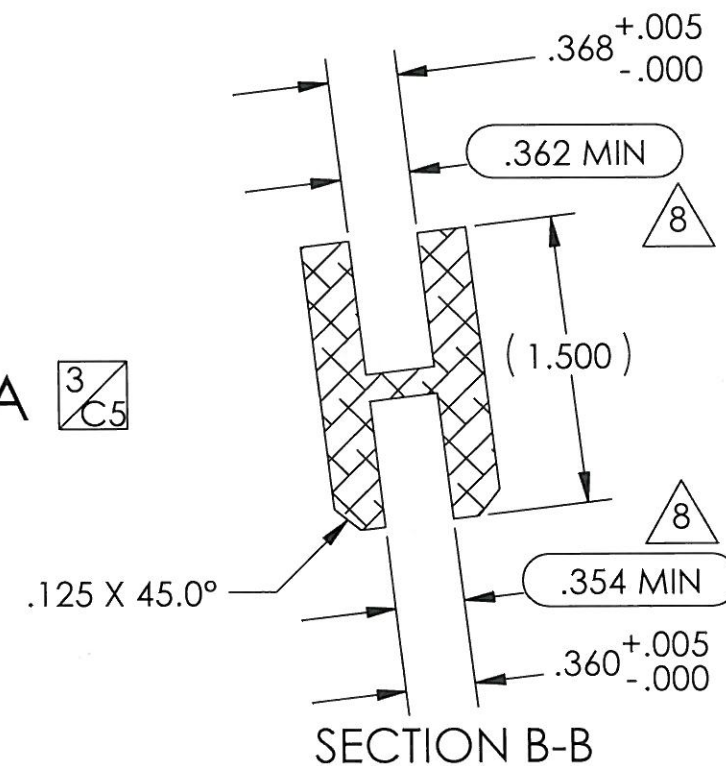
B

C

D



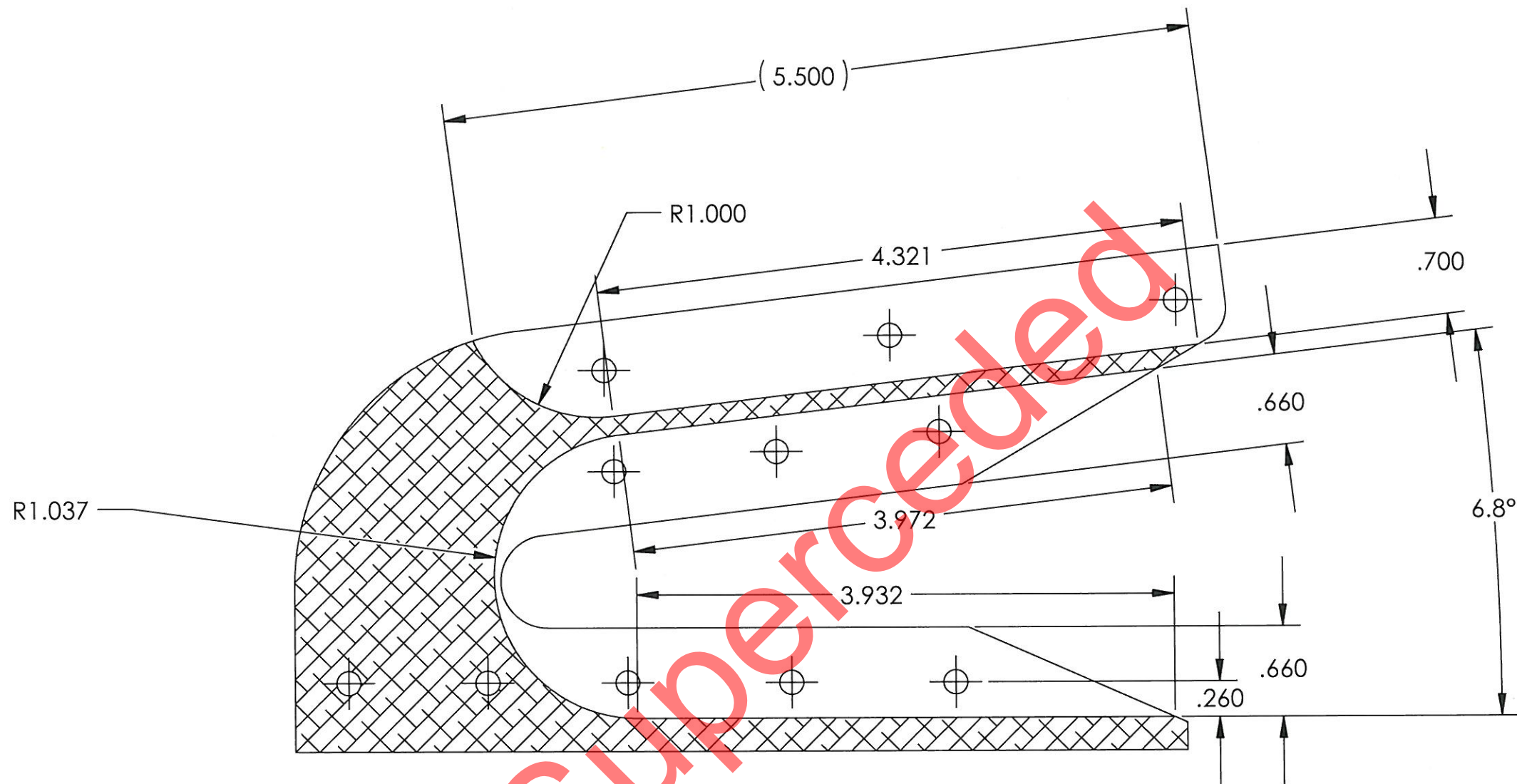
647.9710



|   |                     |  |                      |
|---|---------------------|--|----------------------|
| ORIGINAL DATE<br>(MO-DA-YR) 04-26-10  |                     | APICAL INDUSTRIES  |                      |
| DRAWN BY<br>A. QUAN   | CHECKER<br>P. BRAVO | 2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 (760)724-5300 |                      |
| DRAWING APPROVAL<br>P. BRAVO<br>04-26-10  |                     | CUTTER SUB ASSYS   |                      |
| CONTRACT NO.  |                     | SIZE<br>B  | REV.<br>A            |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS ± .03<br>3 PLACE DECIMALS ± .010<br>ANGLES ± 5° |                     | CAGE CODE<br>07MZ6   | DWG. NO.<br>647.9700 |
|   |                     | SCALE<br>NONE  | SHEET<br>2 OF 7      |



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SECTION A-A 2  
B6

|  |                     |   |                   |
|--|---------------------|---|-------------------|
| ORIGINAL DATE<br>(MO-DA-YR) 04-26-10   |                     | APICAL INDUSTRIES<br>2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 (760)724-5300 |                   |
| DRAWN BY<br>A. QUAN  | CHECKER<br>P. BRAVO |   |                   |
| DRAWING APPROVAL<br>P. BRAVO<br>04-26-10   |                     | CUTTER SUB ASSYS  |                   |
| CONTRACT No.   |                     | SIZE B  | REV. A            |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS ± .03<br>3 PLACE DECIMALS ± .010<br>ANGLES ± .5° |                     | CAGE CODE 07MZ6   | DWG. NO. 647.9700 |
|  |                     | SCALE NONE  | SHEET 3 OF 7      |

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A

B

C

D

3.279

3.030

2.780

2.327

2.185

2.042

$\phi .177^{+.005}_{-.000}$  11PL

.501

0

.390

1.410

2.272

2.339

2.430

3.531

3.630

4.367

4.722

4.830

6.462

HOLE LOCATIONS +/- .002

ORIGINAL DATE  
(MO-DA-YR) 04-26-10  
DRAWN BY  
A. QUAN  
CHECKER  
P. BRAVO  
DRAWING APPROVAL  
P. BRAVO  
04-26-10  
CONTRACT No.

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES ARE  
2 PLACE DECIMALS  $\pm .03$   
3 PLACE DECIMALS  $\pm .010$   
ANGLES  $\pm .5^\circ$

APICAL INDUSTRIES  
2608 TEMPLE HEIGHTS DR.  
OCEANSIDE, CA. 92056-3512 (760)724-5300

CUTTER SUB ASSYS

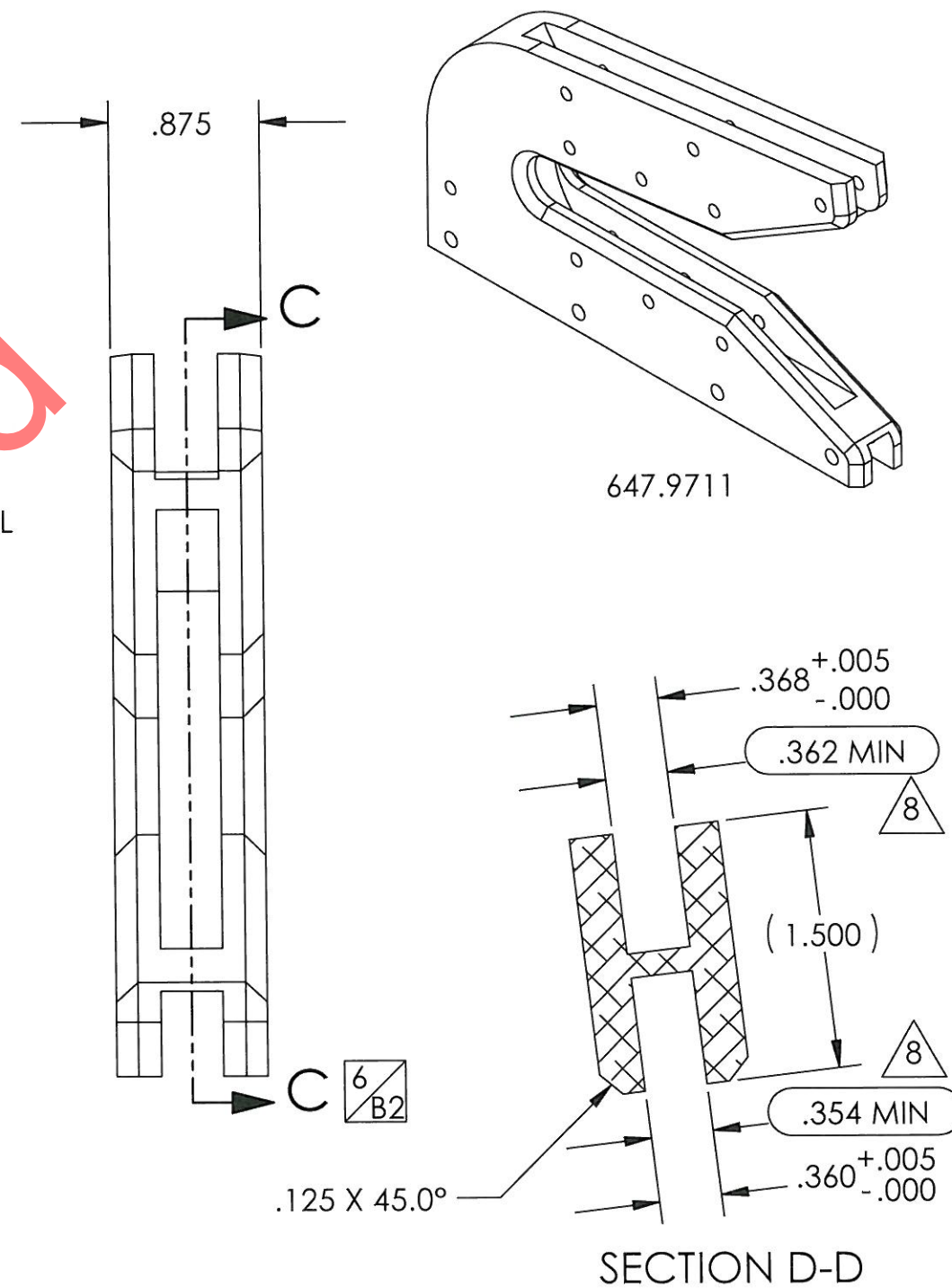
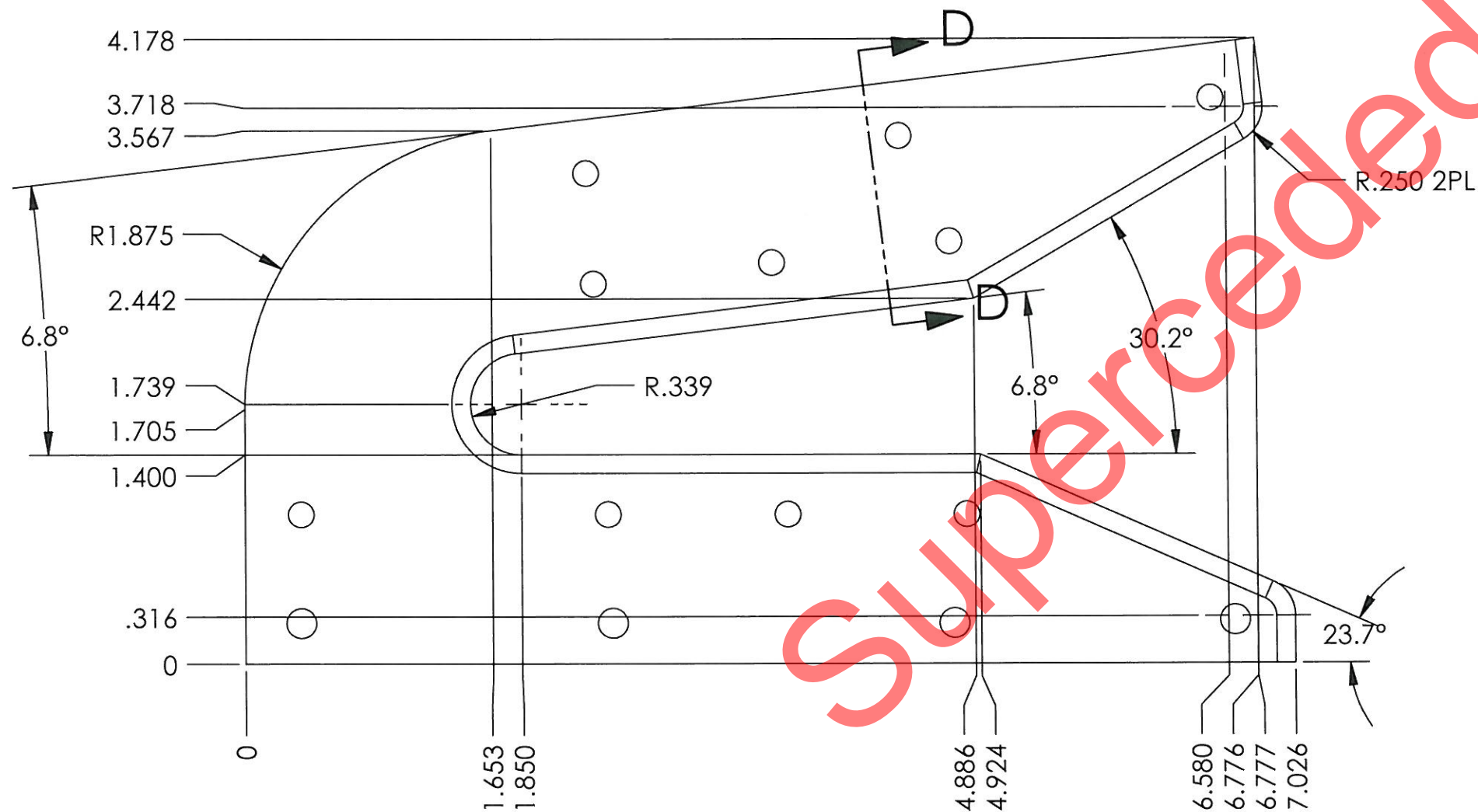
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|------------|--------------------|----------------------|--------------|
| SIZE<br>B  | CAGE CODE<br>07MZ6 | DWG. NO.<br>647.9700 | REV.<br>A    |
| SCALE NONE |                    |                      | SHEET 4 OF 7 |



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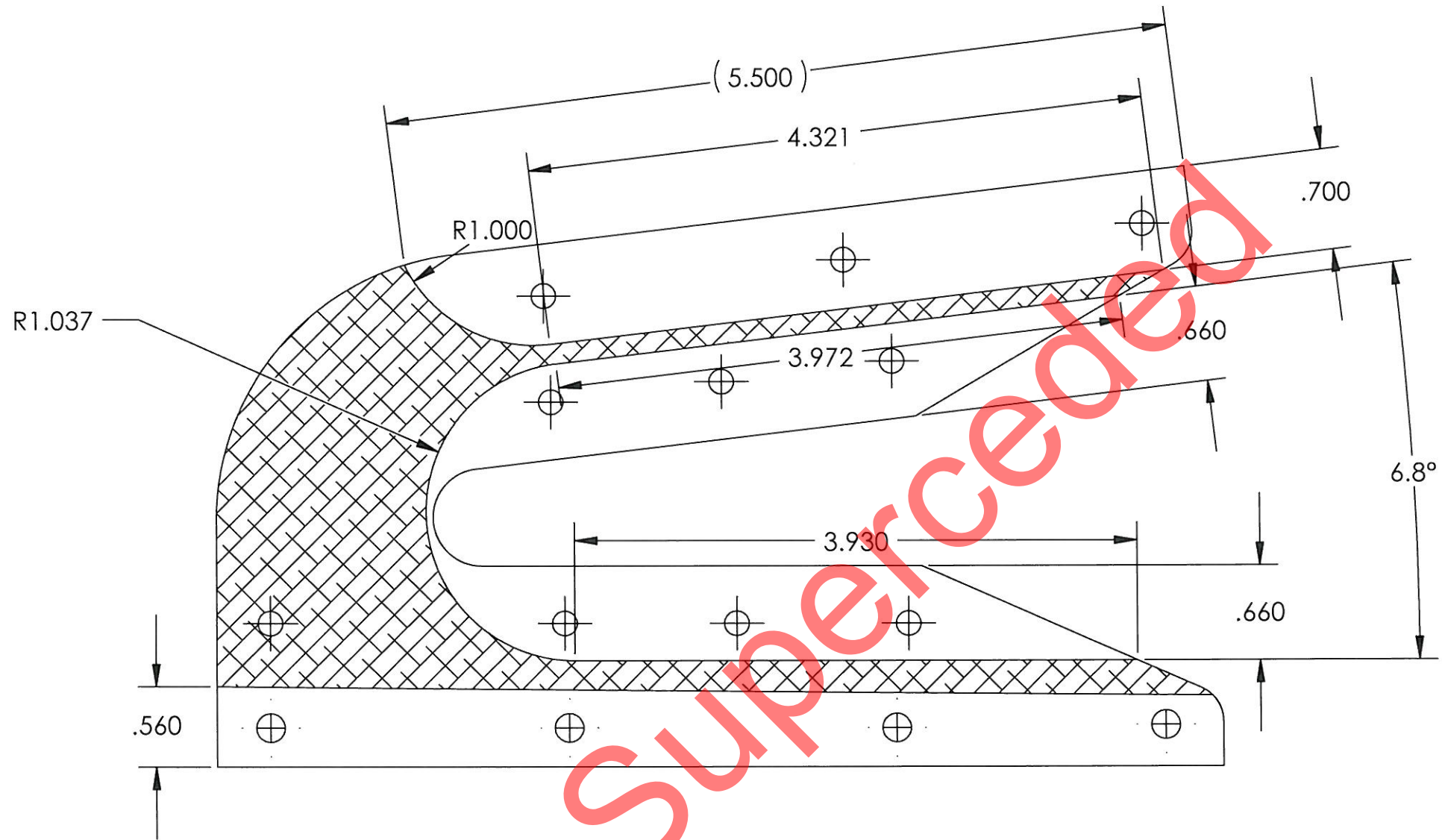
A  
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D

1 2 3 4 5 6 7 8



|   |                     |  |                     |
|---|---------------------|--|---------------------|
| ORIGINAL DATE<br>(MO-DA-YR) 04-26-10  |                     | APICAL INDUSTRIES  |                     |
| DRAWN BY<br>A. QUAN   | CHECKER<br>P. BRAVO | 2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 (760)724-5300 |                     |
| DRAWING APPROVAL<br>P. BRAVO<br>04-26-10  |                     | CUTTER SUB ASSYS   |                     |
| CONTRACT No.  |                     | SIZE<br>B  | REV<br>A            |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS ± .03<br>3 PLACE DECIMALS ± .010<br>ANGLES ± 5° |                     | CAGE CODE<br>07MZ6   | DWG. NO<br>647.9700 |
|   |                     | SCALE<br>NONE  | SHEET<br>5 OF 7     |

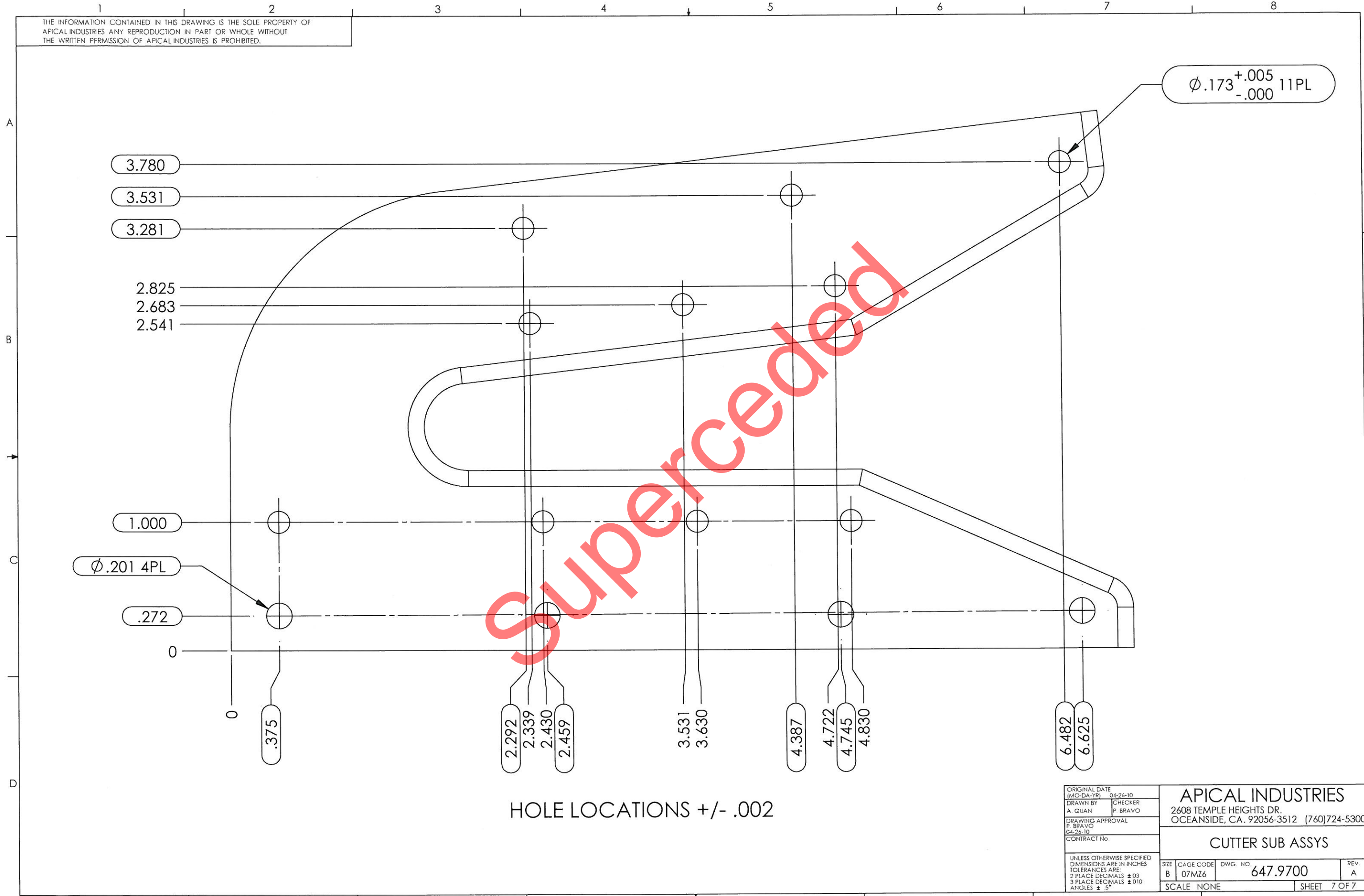
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SECTION C-C 5  
B6

|   |                     |   |                      |
|---|---------------------|---|----------------------|
| ORIGINAL DATE<br>(MO-DA-YR) 04-26-10  |                     | APICAL INDUSTRIES<br>2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 (760)724-5300 |                      |
| DRAWN BY<br>A. QUAN   | CHECKER<br>P. BRAVO |   |                      |
| DRAWING APPROVAL<br>P. BRAVO<br>04-26-10  |                     | CUTTER SUB ASSYS  |                      |
| CONTRACT No.  |                     |   |                      |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS ±.03<br>3 PLACE DECIMALS ±.010<br>ANGLES ± 5° |                     | SIZE<br>B   | REV.<br>A            |
|   |                     | CAGE CODE<br>07MZ6  | DWG. NO.<br>647.9700 |
|   |                     | SCALE<br>NONE   | SHEET<br>6 OF 7      |

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|  |                     |  |                   |
|--|---------------------|--|-------------------|
| ORIGINAL DATE<br>(MO-DA-YR) 04-26-10   |                     | APICAL INDUSTRIES  |                   |
| DRAWN BY<br>A. QUAN  | CHECKER<br>P. BRAVO | 2608 TEMPLE HEIGHTS DR.<br>OCEANSIDE, CA. 92056-3512 (760)724-5300 |                   |
| DRAWING APPROVAL<br>P. BRAVO<br>04-26-10   |                     | CUTTER SUB ASSYS   |                   |
| CONTRACT No.   |                     | SIZE B   | REV. A            |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES ARE:<br>2 PLACE DECIMALS ± .03<br>3 PLACE DECIMALS ± .010<br>ANGLES ± .5° |                     | CAGE CODE 07MZ6  | DWG. NO. 647.9700 |
|  |                     | SCALE NONE   | SHEET 7 OF 7      |